SEQUENCE LISTING

<110>   Aoki, Hirofumi
        Kodama, Tatsuhiko
        Hasegawa, Kiyotaka
        Kajiya, Kentaro
        Ishimatsu, Yumiko
        Ogou, Masashi
        Yoshida, Seiichi
        Kishimoto, Jiro
        Moro, Osamu

<120>   Method for Predicting Skin Stain Formation and For Screening
        Agent Capable of Inhibiting Skin Stain Formation by Means of
        Promoted Genese in Stained Regions as an Indicator

<130>   AIA-113-PCT

<140>   10/574,469
<141>   2006-03-31

<150>   JP 2003-343549
<151>   2003-10-01

<150>   JP 2003-344786
<151>   2003-10-02

<160>   7

<170>   PatentIn version 3.3

<210>   1
<211>   758
<212>   DNA
<213>   Mouse

<220>
<221>   misc_feature
<222>   (6)..(6)
<223>   n is a, c, g, or t

<400>   1
aaaccntttt cgtggcacag cttcctccct aggcgtgaga ctccggctcc ttcactatga   60

gacttctagc cctttccggt ctgctctgca tgctgctcct ctgtttctgc attttctcct   120

cagaagggag aagacatcct gccaagtcct tgaaactcag gcgctgctgt cacctatctc   180

ctagatccaa gctgacaacc tggaaaggaa accacacaag gccctgcaga ctctgcagaa   240

acaagctacc agtcaagtca tgggtggtgc ctggggctct cccacagata tagggcctcc   300

tccgcccaga tgaagcgttg atgcccagat gtggagacac cagaagcata cacactatgt   360

tgccttgccc cttgccaatg agctgtgaca ctggaatgct tcacttcaga catcagggcg   420

gatggattgc agaattccaa gtcctcattc caaaggtgtc accaaccttc agagtcacta   480

aggtccaggc tcagcccaca agtcaccatg gctcctccag agtaaaagtc caagattcca   540

cctgtgggag ctacagatcc agagactttc aagctgacta gagtgcagag aagcaagacc   600

Page 1

```
tcagtgtgat cagccgagac tacagcatct tgggaaccct cagtcagccc caaacccta   660

acacttaacc actggtctcc aaaccaacac ctgtaacttc ctaatgaaat catcaggagg   720

ataccaaaag aaataaacca taaatcagca tacacacg                          758
```

<210> 2
<211> 2063
<212> DNA
<213> Homo sapiens

<400> 2
```
ctctgcccat tgggaaacac ctctctatga ctctataaat gtccaaggtg gccccaaggg    60

aggacttctg cagcacagct cccttcccag gacgtgaaaa tctgccttct caccatgagg   120

cttctagtcc tttccagcct gctctgtatc ctgcttctct gcttctccat cttctccaca   180

gaagggaaga ggcgtcctgc caaggcctgg tcaggcagga gaaccaggct ctgctgccac   240

cgagtcccta gccccaactc aacaaacctg aaaggacatc atgtgaggct ctgtaaacca   300

tgcaagcttg agccagagcc ccgcctttgg gtggtgcctg gggcactccc acaggtgtag   360

cactcccaaa gcaagactcc agacagcgga gaacctcatg cctggcacct gaggtaccca   420

gcagcctcct gtctcccctt tcagccttca cagcagtgag ctgcaatgtt ggagggcttc   480

atctcgggct gcaaggaccc tgggaaagtt ccagaactcc acgtccttgt ctcaattgtg   540

ccatcaactt tcagagctat catgagccaa cctcagcctt ccgagtagct gggattacag   600

gtgtgcgcca ccacacccgg ctaatttttg cttttttttt ttttgagaca gaatctcgct   660

ctgttgctca ggctggagtg gagtgcagtg gcacgatctc agctcactgc agcctctgcc   720

tcccgggttc aggagattct cctgactcaa cctcctgagt agctgggatt acaggtgcct   780

gccactatgc ctagctaatt tttgtatttt tagtggagac ggggtttttgc cgtgttggcc   840

ggggtggtct cgaactcctg acctcaagtg atccacccgc atcggccccc caaagtgctg   900

ggattatagg cgtgaaccac cgcgcctgtc ccattgttgt gtaatttaa taattagttt   960

tttaagtact tgattttatg ggcacatttt tgtgggatga ttggagttaa tcaaataaag  1020

cttgtcatgt gtgtagtttg gtaagataac ttctttaaat tcatgttttc tctgccttga  1080

ggtagtgagg gaaagatctt aatcagtatt ttggtaatta actgattgaa ttcaagcaaa  1140

tgagacatca tgaacttcag tggttattga tatttcaggg tatatacctg aaatgcctag  1200

aggatacaga tttctcattt cattctttgg tctttcattt ctctatatac agaaatgaaa  1260

tgacacttct gggaggcagt agaagcagga agtcaatgaa ttgagtagag ggtcccattc  1320

cctcaggctg tcattgatca gtgacaattt ataaaaacaa actgcaaagt ctgtggcaag  1380

tggctgcctg cttcctagaa ggagcccatg aaggttaaac tctgtggtcg gtatttgcaa  1440

gcgccgggcg tggtggctca cgcctgtaat cctagcacct gggaggcca aggcaggcgg  1500
```

```
atcacccgag gtcaggagtt tgaggatttg caagcaaaag gtcctctcct gagtctttcc    1560

cagatacccca gcagtgcaga ggctagctgt ggaaggttgc agtgggacag gaatgtattg    1620

tatgccttgc cttacttgtc accattgaga tttccagaga aatgggcata acgtctctta    1680

acaacaacag cagaaagcaa aatacattaa cttaaggttg acaacaaaag attatcaagt    1740

accatgtttt ccaaccaacc agttattcgt ggtaataata aaataaaggt gggaaaatgt    1800

tataattttt aaggaaactg tgtactttaa aaatcttctt tatgaatatc caatgttact    1860

gtaatcctgc tccattaaat gcagcattgt tgtcaggtgc tgcctcttgc ttgggaacag    1920

cattgggctt ttaaatgtct gcagaatctc tgcgttcgaa gggaattgag aatgaacttc    1980

ctggtactgt aatgaaaata aggtctgctc aacacagtaa acgtttcctc tcttctttaa    2040

aaaaaaaaaa aaaaaaaaaa aaa                                            2063
```

<210> 3
<211> 742
<212> DNA
<213> Rat

<400> 3
```
ttttttttgtg ccactgcttc ctctctagcc gtgagactcc agctacttca ctatgcgact      60

tctcacccctc tccggtttgt tcttcatgct gttcctctgt ctctgcgttc tctcctcaga     120

agggagaaag cgtcctgcca agttcccgaa actcaggcct gctgtcatct atctcctaga     180

tccaaaccaa taactggaaa ggaaaccaca caagaccctg cagaccatgc agaaagctag     240

aatccaattc atggggtggt gcctggggct ctcccacaga tatagggcct cccgaagctg     300

gcctccaccg agatgaaacg ttgatgtcca gttatggaga caaccttctg gcccctacca     360

accttcatgg ccagaaagct gtgacaccag aatgtttcac ttcagacagc tgaaggatta     420

cagaattcca agccctcgtt ccaaaggtgc aaccaacctt cagagtcact atgatccagg     480

gtcagcccac aagtcttcat ggctcctgca gagtaaaagt ccaagattcc atccctggga     540

gctacagatt cagagacttc caagctgact ggcgaacaga gtagcaagac ttccttgtga     600

tcagatgaga ttacagcatc ttaggaaccc tcggacaccc ccaaacccat agcatttaat     660

caacgggata tgaaccaact cctgtaactt cctaatgtaa tcaccaggag aacaccaaaa     720

ataataaatc ataaatcaat gt                                             742
```

<210> 4
<211> 20
<212> DNA
<213> Artificial

<220>
<223> Sense Primer

<400> 4
```

ttctttgcct gctgctcata                                                          20

<210>    5
<211>    20
<212>    DNA
<213>    Artificial

<220>
<223>    Antisense Primer

<400>    5
gacaaggatg agaaaacacg                                                          20


<210>    6
<211>    20
<212>    DNA
<213>    Artificial

<220>
<223>    Sense Primer

<400>    6
actccggctc cttcactatg                                                          20


<210>    7
<211>    20
<212>    DNA
<213>    Artificial

<220>
<223>    Antisense Primer

<400>    7
ctttggaatg aggacttgga                                                          20

SEQUENCE LISTING

<110>  Aoki, Hirofumi
       Kodama, Tatsuhiko
       Hasegawa, Kiyotaka
       Kajiya, Kentaro
       Ishimatsu, Yumiko
       Ogou, Masashi
       Yoshida, Seiichi
       Kishimoto, Jiro
       Moro, Osamu

<120>  Method for Predicting Skin Stain Formation and For Screening
       Agent Capable of Inhibiting Skin Stain Formation by Means of
       Promoted Genese in Stained Regions as an Indicator

<130>  AIA-113-PCT

<140>  10/574,469
<141>  2006-03-31

<150>  JP 2003-343549
<151>  2003-10-01

<150>  JP 2003-344786
<151>  2003-10-02

<160>  7

<170>  PatentIn version 3.3

<210>  1
<211>  758
<212>  DNA
<213>  Mouse


<220>
<221>  misc_feature
<222>  (6)..(6)
<223>  n is a, c, g, or t

<400>  1
aaaccntttt cgtggcacag cttcctccct aggcgtgaga ctccggctcc ttcactatga      60

gacttctagc cctttccggt ctgctctgca tgctgctcct ctgtttctgc attttctcct     120

cagaagggag aagacatcct gccaagtcct tgaaactcag gcgctgctgt cacctatctc     180

ctagatccaa gctgacaacc tggaaaggaa accacacaag gccctgcaga ctctgcagaa     240

acaagctacc agtcaagtca tgggtggtgc ctggggctct cccacagata tagggcctcc     300

tccgcccaga tgaagcgttg atgcccagat gtggagacac cagaagcata cacactatgt     360

tgccttgccc cttgccaatg agctgtgaca ctggaatgct tcacttcaga catcagggcg     420

gatggattgc agaattccaa gtcctcattc caaaggtgtc accaaccttc agagtcacta     480

aggtccaggc tcagcccaca agtcaccatg gctcctccag agtaaaagtc caagattcca     540

cctgtgggag ctacagatcc agagactttc aagctgacta gagtgcagag aagcaagacc     600

```
tcagtgtgat cagccgagac tacagcatct tgggaaccct cagtcagccc caaaccccta     660

acacttaacc actggtctcc aaaccaacac ctgtaacttc ctaatgaaat catcaggagg     720

ataccaaaag aaataaacca taaatcagca tacacacg                            758
```

<210> 2
<211> 2063
<212> DNA
<213> Homo sapiens

<400> 2
```
ctctgcccat tgggaaacac ctctctatga ctctataaat gtccaaggtg gccccaaggg      60

aggacttctg cagcacagct cccttcccag gacgtgaaaa tctgccttct caccatgagg     120

cttctagtcc tttccagcct gctctgtatc ctgcttctct gcttctccat cttctccaca     180

gaagggaaga ggcgtcctgc caaggcctgg tcaggcagga gaaccaggct ctgctgccac     240

cgagtcccta gccccaactc aacaaacctg aaaggacatc atgtgaggct ctgtaaacca     300

tgcaagcttg agccagagcc ccgcctttgg gtggtgcctg gggcactccc acaggtgtag     360

cactcccaaa gcaagactcc agacagcgga gaacctcatg cctggcacct gaggtaccca     420

gcagcctcct gtctcccctt tcagccttca cagcagtgag ctgcaatgtt ggagggcttc     480

atctcgggct gcaaggaccc tgggaaagtt ccagaactcc acgtccttgt ctcaattgtg     540

ccatcaactt tcagagctat catgagccaa cctcagcctt ccgagtagct gggattacag     600

gtgtgcgcca ccacacccgg ctaattttg cttttttttt ttttgagaca gaatctcgct     660

ctgttgctca ggctggagtg gagtgcagtg gcacgatctc agctcactgc agcctctgcc     720

tcccgggttc aggagattct cctgactcaa cctcctgagt agctgggatt acaggtgcct     780

gccactatgc ctagctaatt tttgtatttt tagtggagac ggggtttgc cgtgttggcc     840

ggggtggtct cgaactcctg acctcaagtg atccacccgc atcggccccc caaagtgctg     900

ggattatagg cgtgaaccac cgcgcctgtc ccattgttgt gtaattttaa taattagttt     960

tttaagtact tgattttatg ggcacatttt tgtgggatga ttggagttaa tcaaataaag    1020

cttgtcatgt gtgtagtttg gtaagataac ttctttaaat tcatgttttc tctgccttga    1080

ggtagtgagg gaaagatctt aatcagtatt ttggtaatta actgattgaa ttcaagcaaa    1140

tgagacatca tgaacttcag tggttattga tatttcaggg tatatacctg aaatgcctag    1200

aggatacaga tttctcattt cattctttgg tctttcattt ctctatatac agaaatgaaa    1260

tgacacttct gggaggcagt agaagcagga agtcaatgaa ttgagtagag ggtcccattc    1320

cctcaggctg tcattgatca gtgacaattt ataaaaacaa actgcaaagt ctgtggcaag    1380

tggctgcctg cttcctagaa ggagcccatg aaggttaaac tctgtggtcg gtatttgcaa    1440

gcgccgggcg tggtggctca cgcctgtaat cctagcacct gggaggcca aggcaggcgg    1500
```

```
atcacccgag gtcaggagtt tgaggatttg caagcaaaag gtcctctcct gagtctttcc    1560

cagataccca gcagtgcaga ggctagctgt ggaaggttgc agtgggacag gaatgtattg    1620

tatgccttgc cttacttgtc accattgaga tttccagaga aatgggcata acgtctctta    1680

acaacaacag cagaaagcaa aatacattaa cttaaggttg acaacaaaag attatcaagt    1740

accatgtttt ccaaccaacc agttattcgt ggtaataata aaataaaggt gggaaaatgt    1800

tataattttt aaggaaactg tgtactttaa aaatcttctt tatgaatatc caatgttact    1860

gtaatcctgc tccattaaat gcagcattgt tgtcaggtgc tgcctcttgc ttgggaacag    1920

cattgggctt ttaaatgtct gcagaatctc tgcgttcgaa gggaattgag aatgaacttc    1980

ctggtactgt aatgaaaata aggtctgctc aacacagtaa acgtttcctc tcttctttaa    2040

aaaaaaaaaa aaaaaaaaaa aaa                                           2063
```

<210> 3
<211> 742
<212> DNA
<213> Rat

<400> 3
```
ttttttttgtg ccactgcttc ctctctagcc gtgagactcc agctacttca ctatgcgact     60

tctcaccctc tccggtttgt tcttcatgct gttcctctgt ctctgcgttc tctcctcaga    120

agggagaaag cgtcctgcca agttcccgaa actcaggcct gctgtcatct atctcctaga    180

tccaaaccaa taactggaaa ggaaaccaca caagaccctg cagaccatgc agaaagctag    240

aatccaattc atggggtggt gcctggggct ctcccacaga tatagggcct cccgaagctg    300

gcctccaccg agatgaaacg ttgatgtcca gttatggaga caaccttctg gcccctacca    360

accttcatgg ccagaaagct gtgacaccag aatgtttcac ttcagacagc tgaaggatta    420

cagaattcca gccctcgtt ccaaaggtgc aaccaacctt cagagtcact atgatccagg    480

gtcagcccac aagtcttcat ggctcctgca gagtaaaagt ccaagattcc atccctggga    540

gctacagatt cagagacttc caagctgact ggcgaacaga gtagcaagac ttccttgtga    600

tcagatgaga ttacagcatc ttaggaaccc tcggacaccc ccaaacccat agcatttaat    660

caacgggata tgaaccaact cctgtaactt cctaatgtaa tcaccaggag aacaccaaaa    720

ataataaatc ataaatcaat gt                                           742
```

<210> 4
<211> 20
<212> DNA
<213> Artificial

<220>
<223> Sense Primer

<400> 4

ttctttgcct gctgctcata   20

<210>   5
<211>   20
<212>   DNA
<213>   Artificial

<220>
<223>   Antisense Primer

<400>   5
gacaaggatg agaaaacacg   20

<210>   6
<211>   20
<212>   DNA
<213>   Artificial

<220>
<223>   Sense Primer

<400>   6
actccggctc cttcactatg   20

<210>   7
<211>   20
<212>   DNA
<213>   Artificial

<220>
<223>   Antisense Primer

<400>   7
ctttggaatg aggacttgga   20